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# NOTICE OF ALLOWANCE AND FEE(S) DUE

23347

7590

05/22/2009

**EXAMINER** AULAKH, CHARANJIT

PAPER NUMBER

GLAXOSMITHKLINE

CORPORATE INTELLECTUAL PROPERTY, MAI B482 FIVE MOORE DR., PO BOX 13398 RESEARCH TRIANGLE PARK, NC 27709-3398

1625

ART UNIT

DATE MAILED: 05/22/2009

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/551,985	10/04/2005	Mark James Bamford	PB60199USW	3306

TITLE OF INVENTION: 4-(4-(HETEROCYCLYLAKOXY)( PHENYL)-1-(HETEROCYCLYL-CARBONYL) PIPERIDINE DERIVAVITES AND RELATED COMPOUNDS AS HISTAMINE H3 ANTAGONISTS FOR THE TREATMENT OF NEUROLOGICAL DISEASES SUCH AS ALZHEIMER'S

APPLN. TYPE	SMALL ENTITY	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	NO	\$1510	\$300	\$0	\$1810	08/24/2009

THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATENT. <u>PROSECUTION ON THE MERITS IS CLOSED</u>. THIS NOTICE OF ALLOWANCE IS NOT A GRANT OF PATENT RIGHTS. THIS APPLICATION IS SUBJECT TO WITHDRAWAL FROM ISSUE AT THE INITIATIVE OF THE OFFICE OR UPON PETITION BY THE APPLICANT. SEE 37 CFR 1.313 AND MPEP 1308.

THE ISSUE FEE AND PUBLICATION FEE (IF REQUIRED) MUST BE PAID WITHIN THREE MONTHS FROM THE MAILING DATE OF THIS NOTICE OR THIS APPLICATION SHALL BE REGARDED AS ABANDONED. THIS STATUTORY PERIOD CANNOT BE EXTENDED. SEE 35 U.S.C. 151. THE ISSUE FEE DUE INDICATED ABOVE DOES NOT REFLECT A CREDIT FOR ANY PREVIOUSLY PAID ISSUE FEE IN THIS APPLICATION. IF AN ISSUE FEE HAS PREVIOUSLY BEEN PAID IN THIS APPLICATION (AS SHOWN ABOVE), THE RETURN OF PART B OF THIS FORM WILL BE CONSIDERED A REQUEST TO REAPPLY THE PREVIOUSLY PAID ISSUE FEE TOWARD THE ISSUE FEE NOW DUE.

#### HOW TO REPLY TO THIS NOTICE:

I. Review the SMALL ENTITY status shown above.

If the SMALL ENTITY is shown as YES, verify your current **SMALL ENTITY status:** 

A. If the status is the same, pay the TOTAL FEE(S) DUE shown

B. If the status above is to be removed, check box 5b on Part B -Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and twice the amount of the ISSUE FEE shown above, or

If the SMALL ENTITY is shown as NO:

A. Pay TOTAL FEE(S) DUE shown above, or

B. If applicant claimed SMALL ENTITY status before, or is now claiming SMALL ENTITY status, check box 5a on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and 1/2 the ISSUE FEE shown above.

II. PART B - FEE(S) TRANSMITTAL, or its equivalent, must be completed and returned to the United States Patent and Trademark Office (USPTO) with your ISSUE FEE and PUBLICATION FEE (if required). If you are charging the fee(s) to your deposit account, section "4b" of Part B - Fee(s) Transmittal should be completed and an extra copy of the form should be submitted. If an equivalent of Part B is filed, a request to reapply a previously paid issue fee must be clearly made, and delays in processing may occur due to the difficulty in recognizing the paper as an equivalent of Part B.

III. All communications regarding this application must give the application number. Please direct all communications prior to issuance to Mail Stop ISSUE FEE unless advised to the contrary.

IMPORTANT REMINDER: Utility patents issuing on applications filed on or after Dec. 12, 1980 may require payment of maintenance fees. It is patentee's responsibility to ensure timely payment of maintenance fees when due.

### PART B - FEE(S) TRANSMITTAL

### Complete and send this form, together with applicable fee(s), to: Mail Mail Stop ISSUE FEE

Commissioner for Patents P.O. Box 1450 Alexandria, Virginia 22313-1450

or <u>Fax</u> (571)-273-2885

INSTRUCTIONS: This form should be used for transmitting the ISSUE FEE and PUBLICATION FEE (if required). Blocks 1 through 5 should be completed where m

appropriate. All further indicated unless correct maintenance fee notifica	ed below or directed otl	ng the Patent, advance onerwise in Block 1, by (	rders and notification of a) specifying a new corr	maintenance fees espondence address	will be s; and/or	mailed to the current r (b) indicating a sep	t correspondence address a arate "FEE ADDRESS" fo	
CURRENT CORRESPONDENCE ADDRESS (Note: Use Block 1 for any change of address)				Note: A certificate of mailing can only be used for domestic mailings of the Fee(s) Transmittal. This certificate cannot be used for any other accompanying papers. Each additional paper, such as an assignment or formal drawing, must have its own certificate of mailing or transmission.				
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FIVE MOORE	NTELLECTUAL P DR., PO BOX 1339	482 St ad tra	Certificate of Mailing or Transmission  I hereby certify that this Fee(s) Transmittal is being deposited with the United States Postal Service with sufficient postage for first class mail in an envelope addressed to the Mail Stop ISSUE FEE address above, or being facsimile transmitted to the USPTO (571) 273-2885, on the date indicated below.					
RESEARCH TH	RIANGLE PARK, N	IC 27709-3398	Γ	(Depositor's name)				
							(Signature)	
							(Date)	
APPLICATION NO.	FILING DATE		FIRST NAMED INVENTO	R	ATTO	RNEY DOCKET NO.	CONFIRMATION NO.	
10/551,985	10/04/2005	•	Mark James Bamford			PB60199USW	3306	
			YL)-1-(HETEROCYCL) THE TREATMENT OF N					
APPLN. TYPE	SMALL ENTITY	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSU	JE FEE	TOTAL FEE(S) DUE	E DATE DUE	
nonprovisional	NO	\$1510	\$300	\$0		\$1810	08/24/2009	
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AULAKH, (	CHARANJIT	1625	514-316000					
<ol> <li>Change of correspondence address or indication of "Fee Address" (37 CFR 1.363).</li> <li>Change of correspondence address (or Change of Correspondence Address form PTO/SB/122) attached.</li> <li>"Fee Address" indication (or "Fee Address" Indication form PTO/SB/47; Rev 03-02 or more recent) attached. Use of a Customer Number is required.</li> </ol>			(1) the names of up or agents OR, alterna (2) the name of a sin registered attorney of 2 registered patent at	2. For printing on the patent front page, list  1) the names of up to 3 registered patent attorneys or agents OR, alternatively,  2) the name of a single firm (having as a member a egistered attorney or agent) and the names of up to registered patent attorneys or agents. If no name is isted, no name will be printed.				
PLEASE NOTE: Un recordation as set for (A) NAME OF ASSI	less an assignee is ident th in 37 CFR 3.11. Comj GNEE	ified below, no assignee pletion of this form is NO	T a substitute for filing a (B) RESIDENCE: (CIT	patent. If an assign assignment. Y and STATE OR	COUNT	TRY)	document has been filed for	
Please check the appropr	riate assignee category or	categories (will not be p	rinted on the patent):	Individual 🗖 C	Corporati	ion or other private gr	oup entity 🗖 Government	
4a. The following fee(s) are submitted:  ☐ Issue Fee ☐ Publication Fee (No small entity discount permitted) ☐ Advance Order - # of Copies			4b. Payment of Fee(s): (Please first reapply any previously paid issue fee shown above)  ☐ A check is enclosed. ☐ Payment by credit card. Form PTO-2038 is attached. ☐ The Director is hereby authorized to charge the required fee(s), any deficiency, or credit any overpayment, to Deposit Account Number (enclose an extra copy of this form).					
5. Change in Entity Sta	itus (from status indicate as SMALL ENTITY state	*	☐ b. Applicant is no lo	nger claiming SMA	II EN'	TITV status See 37 C	ER 1.27(a)(2)	
NOTE: The Issue Fee an	d Publication Fee (if req		ed from anyone other than				he assignee or other party in	
				Date				
Authorized Signature  Typed or printed name								
This collection of inform	nation is required by 37 (	on is required to obtain or	retain a benefit by	the nub	lic which is to file (an	d by the USPTO to process		
an application. Confident submitting the complete this form and/or suggest	tiality is governed by 35 d application form to the ions for reducing this bu /irginia 22313-1450. DO	U.S.C. 122 and 37 CFR USPTO. Time will vary rden, should be sent to th	1.14. This collection is e depending upon the ind e Chief Information Offi	stimated to take 12 ividual case. Any c cer. U.S. Patent and	minutes omment I Traden	s to complete, including ts on the amount of ti nark Office, U.S. Dep	and by the USF TO to process ong gathering, preparing, and time you require to complete partment of Commerce, P.O. for Patents, P.O. Box 1450	

PTOL-85 (Rev. 08/07) Approved for use through 08/31/2010.

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10/551,985	10/551,985 10/04/2005 Mark James Bamford		PB60199USW	3306		
23347 7590 05/22/2009			EXAMINER			
GLAXOSMITHI	KLINE	AULAKH, CHARANJIT				
	TELLECTUAL PROPI	ART UNIT	PAPER NUMBER			
FIVE MOORE DR., PO BOX 13398 RESEARCH TRIANGLE PARK, NC 27709-3398			1625	•		
			DATE MAILED: 05/22/2009			

## **Determination of Patent Term Adjustment under 35 U.S.C. 154 (b)**

(application filed on or after May 29, 2000)

The Patent Term Adjustment to date is 429 day(s). If the issue fee is paid on the date that is three months after the mailing date of this notice and the patent issues on the Tuesday before the date that is 28 weeks (six and a half months) after the mailing date of this notice, the Patent Term Adjustment will be 429 day(s).

If a Continued Prosecution Application (CPA) was filed in the above-identified application, the filing date that determines Patent Term Adjustment is the filing date of the most recent CPA.

Applicant will be able to obtain more detailed information by accessing the Patent Application Information Retrieval (PAIR) WEB site (http://pair.uspto.gov).

Any questions regarding the Patent Term Extension or Adjustment determination should be directed to the Office of Patent Legal Administration at (571)-272-7702. Questions relating to issue and publication fee payments should be directed to the Customer Service Center of the Office of Patent Publication at 1-(888)-786-0101 (571)-272-4200.

	Application No.	Applicant(s)					
	10/551,985	BAMFORD ET AL.					
Notice of Allowability	Examiner	Art Unit					
	Charanjit S. Aulakh	1625					
	Charanjii S. Aulakn	1025					
The MAILING DATE of this communication appeal All claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85) NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIOF the Office or upon petition by the applicant. See 37 CFR 1.313	(OR REMAINS) CLOSED in or other appropriate commun IGHTS. This application is su	this application. If not included nication will be mailed in due course. <b>THIS</b>					
1. X This communication is responsive to Paper filed on 22 Apr	<i>il</i> 2009.						
2. The allowed claim(s) is/are 1-13,17 and 19-21.							
<ul> <li>3.  Acknowledgment is made of a claim for foreign priority ur</li> <li>a)  All b)  Some* c)  None of the:</li> <li>1.  Certified copies of the priority documents have</li> </ul>		r (f).					
2. Certified copies of the priority documents have	e been received in Application	No					
3.   Copies of the certified copies of the priority do	cuments have been received	in this national stage application from the					
International Bureau (PCT Rule 17.2(a)).							
* Certified copies not received:							
Applicant has THREE MONTHS FROM THE "MAILING DATE" noted below. Failure to timely comply will result in ABANDONN THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.		a reply complying with the requirements					
4. A SUBSTITUTE OATH OR DECLARATION must be subm INFORMAL PATENT APPLICATION (PTO-152) which give							
5. CORRECTED DRAWINGS ( as "replacement sheets") mus	st be submitted.						
(a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review ( PTO-948) attached							
1) 🔲 hereto or 2) 🔲 to Paper No./Mail Date							
(b) ☐ including changes required by the attached Examiner's Paper No./Mail Date	(b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date						
Identifying indicia such as the application number (see 37 CFR 1 each sheet. Replacement sheet(s) should be labeled as such in t							
6. DEPOSIT OF and/or INFORMATION about the depo attached Examiner's comment regarding REQUIREMENT							
Attachment(s) 1. ☐ Notice of References Cited (PTO-892)	5. ☐ Notice of Info	ormal Patent Application					
2. ☐ Notice of Draftperson's Patent Drawing Review (PTO-948)	6. ☐ Interview Su						
3. ☑ Information Disclosure Statements (PTO/SB/08),	Paper No./N	Mail Date 'Amendment/Comment					
Paper No./Mail Date <u>4/22/09</u>							
4. Examiner's Comment Regarding Requirement for Deposit of Biological Material		Statement of Reasons for Allowance					
	9.	•					
/Charanjit S. Aulakh/ Primary Examiner, Art Unit 1625							
Timely Examinor, fut office 1020							

Application/Control Number: 10/551,985 Page 2

Art Unit: 1625

### **DETAILED ACTION**

1. According to paper filed on April 22, 2009, the applicants have filed a RCE of allowed application.

- 2. Claims 1-13, 17 and 19-21 are pending in the application.
- 3. It is of note that claims 17, 20 and 21 were amended by an examiner's amendment in paper mailed on Jan. 15, 2009.

## REASONS FOR ALLOWANCE

4. The following is an examiner's statement of reasons for allowance:

Claims 1-13, 17 and 19-21, renumbered as claims 1-17, are allowed since the instant compounds of formula (I), pharmaceutical compositions containing these compounds and methods of treatment using these compounds are neither disclosed nor obvious over the prior art. In the prior art, Ujjainwalla (WO 02/068388, cited on applicants form 1449) discloses piperidine compounds (see pages 18-22) which are closely related to instant compounds. However, the compounds of Ujjainwalla differ from the instant compounds in lacking instant -OR4 group attached to the phenyl ring and furthermore, there is no teaching, suggestion or motivation in the prior art to modify the compounds of Ujjainwalla to prepare the instant compounds.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Application/Control Number: 10/551,985 Page 3

Art Unit: 1625

5. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Charanjit S. Aulakh whose telephone number is (571)272-0678. The examiner can normally be reached on Monday through Friday, 8:30 A.M. to 5:00 P.M..

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Janet Andres can be reached on (571)272-0867. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/Charanjit S. Aulakh/ Primary Examiner, Art Unit 1625